II. AMENDMENTS TO THE CLAIMS:

The following listing of claims replaces all prior versions, and listings, of claims in the

application:

1. (Currently Amended) A semiconductor module, comprising:

a semiconductor chip;

a substrate; and

an interposer structure having a connection only to the semiconductor chip and to the

substrate, wherein the interposer structure includes an elastomeric, compliant material having

metallurgical through connections having a predetermined shape, wherein the metallurgical

through connections form the <u>only</u> connections to the semiconductor chip and to the substrate.

2. (Previously Presented) The semiconductor module of claim 1, wherein the elastomeric,

compliant material has the metallurgical through connections being one of the group consisting

of: embedded and positioned therein.

3. (Original) The semiconductor module of claim 1, wherein the predetermined shape is selected

from the group consisting of spherical, elongate, c-shaped, s-shaped and ellipsoid.

4. (Previously Presented) The semiconductor module of claim 1, further comprising support

posts positioned adjacent to and in non-contact with the interposer structure.

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5. (Original) The semiconductor module of claim 4, wherein the support posts support a heat

spreader over the semiconductor chip.

6. (Original) The semiconductor module of claim 1, further comprising underfill for sealing the

interposer structure between the semiconductor chip and the substrate.

7. (Original) The semiconductor module of claim 1, wherein the metallurgical through

connections of the interposer structure electrically connect an under bump metallization of the

semiconductor chip to a top surface metallization of the substrate.

8. (Original) The semiconductor module of claim 7, wherein the metallurgical through

connections are soldered to at least one of the under bump metallization or the top surface

metallization.

9. (Original) The semiconductor module of claim 1, wherein the metallurgical through

connections are coated with gold.

10. (Currently Amended) A semiconductor module, comprising:

a semiconductor chip having an under bump metallization;

a substrate having a top surface metallization; and

an interposer structure only in contact with the under bump metallization and the top

surface metallization, wherein the interposer structure comprises an elastomeric, compliant

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material that includes metallurgical through connections having a predetermined shape, wherein

the metallurgical through connections form the only connections to the under bump metallization

and to the top surface metallization.

11. (Original) The semiconductor module of claim 10, wherein the predetermined shape is

selected from the group consisting of spherical, elongate, c-shaped, s-shaped and ellipsoid.

12. (Original) The semiconductor module of claim 10, further comprises support posts positioned

adjacent the interposer structure for supporting a heat spreader over the semiconductor chip.

13. (Original) The semiconductor module of claim 10, further comprising underfill for sealing

the interposer structure between the semiconductor chip and the substrate.

14. (Original) The semiconductor module of claim 10, wherein the metallurgical through

connections are soldered to at least one of the under bump metallization or the top surface

metallization.

15. (Original) The semiconductor module of claim 10, wherein the metallurgical through

connections are coated with gold.

16. (Currently Amended) A method for forming a semiconductor module, comprising:

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embedding metallurgical through connections within an elastomeric, compliant material

to form an interposer structure; and

positioning the interposer structure between a semiconductor chip and a substrate to

electrically connect and only contact the semiconductor chip to the substrate, wherein the

metallurgical through connections form the only contact to the semiconductor chip and to the

substrate.

17. (Original) The method of claim 16, wherein the metallurgical through connections

electrically connect an under bump metallization of the semiconductor chip to a top surface

metallization of the substrate.

18. (Original) The method of claim 17, further comprising soldering the interposer structure to at

least one of the under bump metallization or the top surface metallization.

19. (Original) The method of claim 16, further comprising positioning support posts adjacent the

interposer structure to support a heat spreader over the semiconductor chip.

20. (Original) The method of claim 16, further comprising sealing the interposer structure

between the semiconductor chip and the substrate with underfill.

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